

Title (en)
WIRE FOR GAS SHIELD ARC WELDING

Title (de)
DRAHT ZUM SCHUTZGASLICHTBOGENSCHWEISSEN

Title (fr)
FIL POUR SOUDAGE À L'ARC SOUS PROTECTION GAZEUSE

Publication
EP 3037205 A1 20160629 (EN)

Application
EP 15003406 A 20151130

Priority
• JP 2014263700 A 20141225
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Abstract (en)
Provided is a wire for gas shield arc welding that produces sound weld zones without causing hot cracking during welding, while exhibiting excellent creep strength and toughness after PWHIT. The wire for gas shield arc welding in the present invention contains C, Si, Mn, S, Cr, Mo, V, Nb, and N in respective predetermined contents, in which the content of each of Ni, P, Cu, Al, B, and O is restricted to a predetermined content, with the balance being Fe and inevitable impurities, a total of the Mn content and the Ni content is set at 0.60 to 1.15%, and a ratio of the Mn content to the S content is 87 or more.

IPC 8 full level
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Citation (applicant)
• JP S6411092 A 19890113 - KOBEL STEEL LTD
• JP H0796390 A 19950411 - KOBEL STEEL LTD
• JP 2005329415 A 20051202 - KOBEL STEEL LTD

Citation (search report)
• [XDI] US 2005257853 A1 20051124 - YAMASHITA KEN [JP], et al
• [I] JP 3375817 B2 20030210
• [A] JP 2001192761 A 20010717 - NIPPON STEEL CORP

Cited by
CN114161027A; WO2021075777A1

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